

140 Watt DC to AC Power Inverter

OWNER'S MANUAL — Please read before using this equipment.

Your RadioShack 140 Watt DC to AC Power Inverter converts 12-volt vehicle battery power into 115 volts of AC power. You can use your inverter in your vehicle to operate a TV, VCR, portable computer, lights for emergency or campsite use, power tools, and many other devices.

The power inverter works with the vehicle engine turned on or off. It provides a continuous output of up to 140 watts, and sustains a temporary output of 180 watts for about 5 minutes. It can "cold start" a load up to 240 watts, and provides the 300 watts (1 cycle @ 60 Hz) of surge start-up power required by most personal computer monitors and TVs.

CONNECTING POWER

1. Plug the power inverter's cigarette lighter plug into the vehicle's cigarette lighter socket.

Cautions:

- The power inverter's cigarette-lighter plug might get hot while it is plugged into a cigarette-lighter socket. Use a cloth or a glove to unplug it from the socket, and let it cool completely before you store it.
 - The cigarette-lighter socket must be rated for at least 20 amps in order to continuously power a 140 watt load.
 - Using a dirty cigarette-lighter socket might prevent the inverter from working properly. If you cannot turn on the power inverter, unplug it from the cigarette-lighter socket, make sure the socket and plug are clean, then reconnect it.
 - Do not use the power inverter in a positively grounded vehicle.
2. Set the power inverter's switch to **I** (on). The power switch's indicator lights.
 3. Plug the desired device's AC plug into the power inverter's AC outlet.
Note: If necessary, you can use an AC extension cord. The extension cord's rating should be equal to, or greater than, the current rating (amps) of the device being powered.
 4. Turn on your device's power as you normally would.
 5. When you are not using the power inverter, flip its power switch to **O** (off).

Automatic Shut-off

Your inverter automatically shuts off under certain conditions. If your inverter shuts off, follow the recommended solutions to restore operation.

Condition	Solution
Device being powered has a short circuit.	Unplug the device. If the power inverter resumes normal operation, the device being powered is faulty.
Temperature exceeds 158°F (70°C).	Disconnect the device and wait until the power inverter cools. The device's power requirement might exceed the power inverter's rating (see "Heat Dispersion").
Power load exceeds 240 watts.	Disconnect the device. Only connect devices with a power load less than 240 watts.
Vehicle battery voltage is lower than 10V.	Run the vehicle's engine to recharge the battery, then turn the power inverter's power switch off and on.

HEAT DISPERSION

When the power inverter's load increases, the inverter generates more heat. Position the power inverter where air flows freely around it to allow the heat to disperse.

The power inverter's thermal protection prevents it from operating when its temperature exceeds 158°F (70°C). Operation resumes when the temperature decreases to about 104°F (40 °C).

LOW BATTERY ALARM

When the power inverter's input voltage decreases to lower than about 11 volts DC, it sounds an alarm indicating the connected vehicle battery is weak. Stop operation immediately.

When the input voltage decreases to lower than about 10 volts DC, the power inverter's output cuts off to prevent battery power drainage.

REPLACING THE FUSE

If the power inverter stops operating due to power overload or reversed polarity connection to power, the inverter's fuse blows. If this happens, replace the fuse with the supplied 20A blade-type fuse.

1. Grasp the fuse (on the end of the power inverter, next to the power cord) and pull it out. If the fuse is blown, replace it.
2. Install the extra fuse. The power inverter resumes operation.

Caution: Do not use a fuse with ratings other than those specified. Doing so might damage your inverter.

CARE

Keep the power inverter dry; if it gets wet, wipe it dry immediately. Use and store the power inverter only in normal temperature environments. Handle the power inverter carefully; do not drop it. Keep the power inverter away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the power inverter's internal components can cause a malfunction and might invalidate its warranty. If your power inverter is not performing as it should, take it to your local RadioShack store for assistance.

SPECIFICATIONS

Input	11–16 VDC
Output	115 VAC/60HZ
Standby Current	0.2 AMP @ 12V
Output Power	300W peak for 1 cycle @ 60Hz or 180W 5 minutes min. @ 77°F ambient or 140W continuously @ 77°F ambient (85% efficiency typical @ 140W)
Auto Shut-off Protection	Protects against output short circuit over temperature @ 158°F (70°C) or when power exceeds 240W or low battery shutdown @ < 10V
Fuse	20A blade-type fuse (one spare fuse Included)
Input Plug	Cigarette Lighter Plug
Power Indicator	Lights when DC power is turned on
Dimensions (HWD)	1½ × 3 × 6 ⁵ / ₁₆ Inches (42 × 76 × 160 mm)
Weight	17.2 Oz (490 g)
Accessory	One Spare 20A Blade Fuse

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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